

16866

VARNUM, RIDDERING, SCHMIDT & HOWLETT  
ATTORNEYS AT LAW

SUITE 800  
171 MONROE AVENUE, N.W.  
GRAND RAPIDS, MICHIGAN 49503  
TELEPHONE (616) 459-4186  
FAX (616) 459-8468  
TELEX 1561593 VARN

December 26, 1990

JON F. DEWITT

Mr. Paul R. Steadman, OSC  
U.S. EPA - Region V  
230 South Dearborn  
5HS12  
WMD/OSF/EERB - RSII  
Chicago, IL 60604

Re: Administrative Order - Work Plan

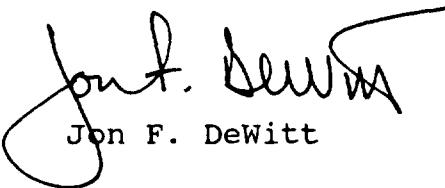
Dear Mr. Steadman:

As indicated in our letter of December 21, we are enclosing the revised Work Plan with all of your modifications included. We have also added an Exhibit G to the Index of Exhibits.

We look forward to receiving EPA's written approval of the Work Plan.

Yours truly,

VARNUM, RIDDERING, SCHMIDT & HOWLETT

  
Jon F. DeWitt

JFD:jb

Enclosure

cc: Ms. Laurie Donlon Adams (w/encl)  
Mr. Tom Flanagan (w/encl)

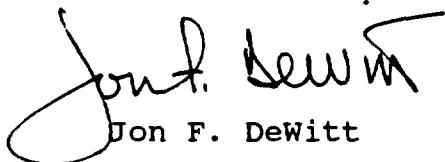
VARNUM, RIDDERING, SCHMIDT & HOWLETT

Mr. Paul R. Steadman, OSC  
December 21, 1990  
Page 2

We look forward to receiving the final written approval of the modified Work Plan.

Yours truly,

VARNUM, RIDDERING, SCHMIDT & HOWLETT

  
Jon F. DeWitt

JFD:jb  
Enclosures  
cc: Ms. Laurie Donlon Adams (w/encl)  
Mr. Tom Flanagan (w/encl)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

---

IN THE MATTER OF: ) Docket No. V-W-'91-C-077  
Allied Paper )  
Respondent: ) ADMINISTRATIVE ORDER BY CONSENT  
HM Holdings, Inc. ) PURSUANT TO SECTION 106  
 ) OF THE COMPREHENSIVE  
 ) ENVIRONMENTAL RESPONSE,  
 ) COMPENSATION, AND  
 ) LIABILITY ACT OF 1980  
 ) as amended, 42 U.S.C.  
 ) Section 9606(a)  
)

WORK PLAN

Submitted by Respondent  
HM Holdings, Inc.  
November 15, 1990

WORK PLAN  
FOR FENCING TO CONTROL PUBLIC ACCESS TO SITE

## 1.0 BACKGROUND

### 1.1 Introduction

Under the terms of an Administrative Order by Consent ("Order") pursuant to Section 106 of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA), dated November 1 and received by Respondent November 5, 1990, Allied Paper, Inc. ("Allied") has been identified as a potentially responsible party (PRP) with respect to the presence of PCBs on Allied property in the City of Kalamazoo, Michigan. Immediately adjacent to the Allied property is property described in the Order as the "Panelyte" property, the owners of which are either presently unknown or unascertained. Such owners when identified or ascertained may be additional PRPs with respect to the Order and this Work Plan. The principle contractor performing the removal activities under the Order, particularly the erection of a fence and the posting of signs will be FRETCO, INC., 1107 Edgemoor, Kalamazoo, Michigan 49008.

The Order was entered into between the United States Environmental Protection Agency (U.S. EPA) and respondent Allied on November 1 with an effective date of November 5, 1990. A copy of that Order is attached to this Work Plan. The sole objective of this Work Plan is to provide for the perimeter fencing of the Allied and Panelyte properties in order to control public access to the Allied and Panelyte properties and the posting of warning signs. U.S. EPA has determined that the installation of such a fence is necessary "to protect the public health, welfare and the environment because of actual or potential exposure to hazardous substances by nearby populations, animals, or food chain." Completion of this project will satisfy the objectives of the Order.

Briefly, the Scope of Work includes the installation of a fence and posting of warning signs on the perimeter of Allied and Panelyte properties, and also on certain properties owned by third parties (the "Work"). See Exhibit A attached which shows the general location of the fence installation. Fence installation in the residential area east of and abutting the Bryant Mill Pond and Portage Creek will be in accordance with Exhibit B as to location and specification. The general specifications for the fence have been provided by EPA

and a copy of the specification is attached to this Work Plan as Exhibit C. Allied will also take steps to assure that all of the warning signs already posted around the site by either MDNR or Allied will be affixed to or immediately inside the erected fence. All work under this Work Plan will be conducted consistent with the National Contingency Plan (40 CFR Part 300).

It is Allied's intent to complete the Work within 14 days after approval of the Work Plan by U.S. EPA. However, because of possible access problems in the residential area, it is impossible at this time to establish with finality when the project will be completed. (See Order, p.4, ¶ 4.) Installation of the portion of the fence in the bordering residential area requires access agreements from several residents. While difficulties in obtaining such access agreements are not seriously contemplated, until such access agreements have been obtained, the installation cannot be completed. If Allied has difficulty in obtaining such access agreements, it will seek the assistance of U.S. EPA in obtaining access as required in the Order. After all access agreements have been obtained, the fence in this area will be completed within 10 days. Inability to gain access to the residential area shall not impact the progression of the unaffected portions of the fence. In fact, at the time of submission of this Work Plan, approximately 80% of the Work (except for the residential area) has been completed by Allied.

## 1.2 Site History

Allied has owned and operated certain portions of the site (as shown on Exhibit A) for many years. Stryker Corporation has owned those properties as shown also on Exhibit A. Various parties have owned and operated the "Panelyte" site, as shown on Exhibit A, but the present owners of that site are unknown and unascertained. The portion of the properties shown on Exhibit A owned by Allied has been used historically for the disposition of paper mill waste from the Allied Paper plant. Allied continues as owner of the properties shown on Exhibit A, having sold the plant facilities in December of 1988.

The Allied properties have been the subject of litigation filed by the State of Michigan against Allied and others in November, 1987. That lawsuit is presently pending in the United States District Court for the Western District of Michigan, and is assigned to Judge Robert Holmes Bell. The Allied property is also subject to Michigan Department of Natural Resources (MDNR) regulation, which regulation is also a subject of the

pending litigation, and is further subject to periodic review by the local Kalamazoo County Health Department.

The Allied property is also the subject of the Order pursuant to which this Work Plan has been established, and is currently the subject of a PRP proceeding commenced by the State of Michigan which concerns not only the Allied property as shown on Exhibit A, but portions of Portage Creek and the Kalamazoo River. An Administrative Order on Consent has been signed by HM Holdings and two other companies to perform a RI/FS on this site and portions of Portage Creek and the Kalamazoo River.

The Panelyte property is also the subject of the above-referenced litigation filed by the state against Allied. The Panelyte property is also the subject of EPA enforcement proceedings.

The Stryker property was initially the subject of the litigation brought by the state against Allied referenced above; the Stryker Corporation was dismissed as a party to that litigation subject to certain conditions contained in the Stipulation and Order of Dismissal.

Allied has been conducting numerous sampling, testing, and other surveys of the Allied properties in conjunction with the pending state litigation. An extensive data base of information showing all of the results of such activities are presently on file with the State of Michigan. Results of recent samples taken by EPA to support this particular fencing activity are attached to this Work Plan as Exhibit D. Based on the EPA samples, the average surficial level of PCB concentrations exceeds 10 ppm.

EPA has sampled various portions of the Panelyte property from time to time, and copies of the results of those sampling efforts are available from the EPA.

### 1.3 Site Description

The Allied property essentially consists of an area containing a 7.8 acre sanitary landfill licensed by the State of Michigan which landfill is located within approximately a 50-acre area also owned by Allied Paper, lying between Cork and Alcott Streets in the City of Kalamazoo. The landfill and the adjacent areas are commonly referred to as the residual disposal area for Allied.

The licensed landfill and the adjacent residual disposal areas were used for disposal of waste from Allied Paper and Performance Papers operations; presently the Performance Papers plant is not in operation and a sale is pending to another company. The landfill and residual areas are currently maintained by Allied. In conjunction with the sale of the Allied plant to Performance Papers, Inc. in December, 1988, a landfill agreement was entered into between Allied and Performance Papers which allowed Performance Papers to continue to use the licensed landfill and the residual disposal area in conjunction with its operation of the plant. In November, 1989, Performance Papers filed proceedings in the bankruptcy court for the Western Michigan District. Since the filing of such proceedings, the landfill and the residual disposal areas have been inactive. There are presently negotiations between Performance Papers and a potential new owner which could potentially reinstate the active operation of the landfill and the residual disposal areas under the landfill agreement.

There are no major buildings on the Allied properties as such. There are two major structures on the site, the Bryant clarifier and the Monarch clarifier. The Bryant clarifier is used as a part of the process to dispose of the paper mill effluent in the licensed landfill and the residual disposal areas. The Monarch clarifier is not currently in use.

The properties immediately surrounding the Allied and Panelyte properties are commercial or industrial with the exception of properties along a portion of the Eastern side of the Allied property, which is residential in nature.

The primary contaminant identified by EPA for purposes of this action is polychlorinated biphenals (PCBs). PCBs are a regulated hazardous substance.

Attached to this Work Plan as Exhibit E is a topographical map of the Allied Paper site, which also covers the relevant portions of the Panelyte property and the Stryker property.

In that the entire Scope of this Work Plan is solely limited to the installation of a fence, it is not necessary to go into a detailed description of the geology of the site.

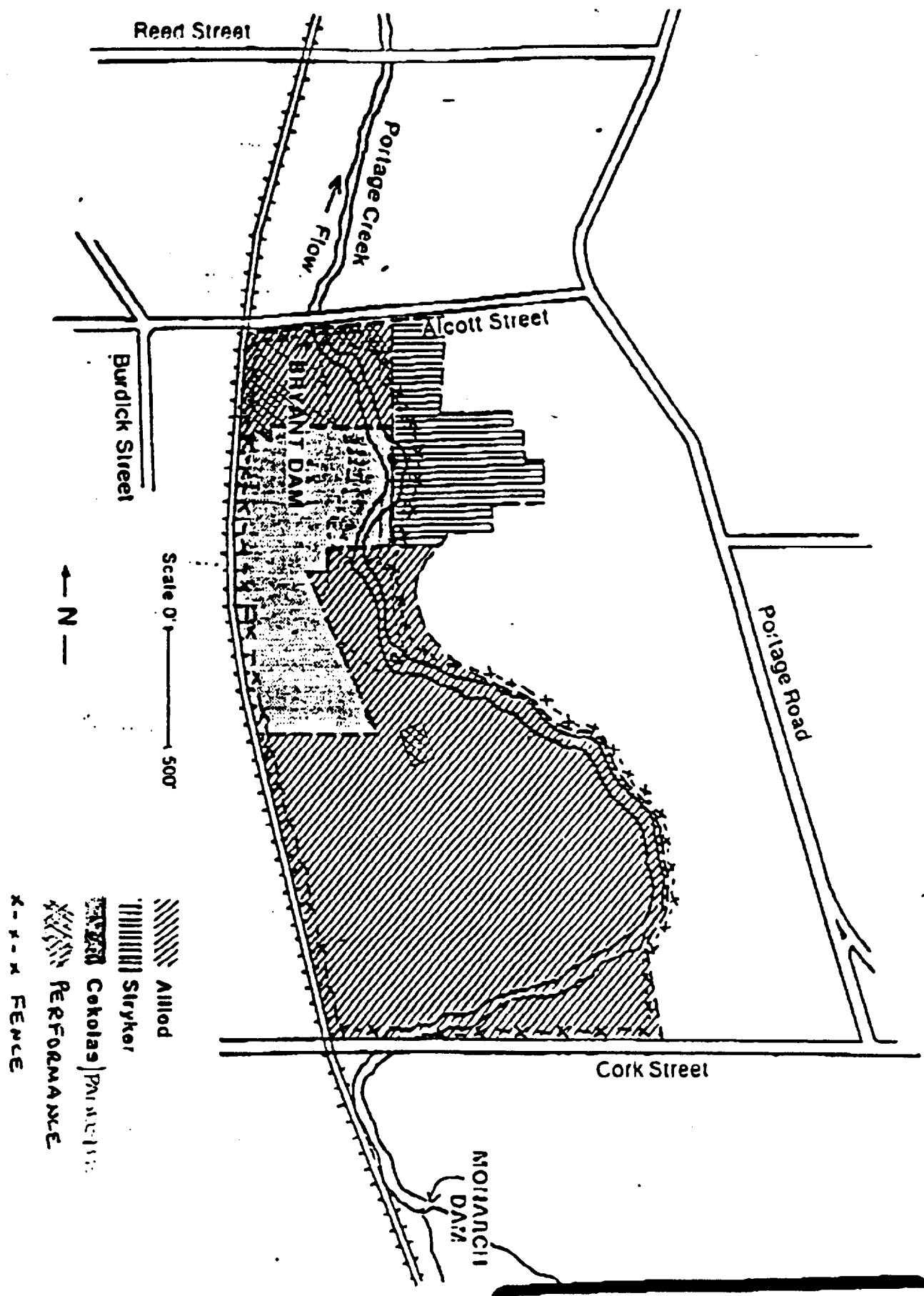


EXHIBIT A

## **2.0 SITE MOBILIZATION**

### **2.1 Pre-work Meeting**

There have been several meetings between Allied's Project Coordinator Tom Flanagan and Paul Steadman, the U.S. EPA on-scene coordinator, to discuss the Work. Changes in the Work have resulted and the Work has proceeded in accordance with those meetings.

### **2.2 Site Security**

Installation of the fence was commenced prior to the execution of this Work Plan. In addition, security for certain materials and equipment utilized in the installation of the fence is provided inside a fenced area which surrounds the Bryant clarifier on the Allied property. That fenced area is patrolled daily and is adequate to secure the materials and the equipment being utilized.

### **2.3 Site Control Measures**

In that the sole activity under this Work Order is the installation of an above-ground fence and posting of signs, site control, other than site security is not applicable. All fence posts are expected to be installed in non-contaminated areas and consequently there will be no need for a safe zone, contamination zone, decontamination stations, or entry points into the contamination zone. Likewise, decontamination trailers and vehicle equipment contamination will not be necessary.

### **2.4 Office Trailers/Decontamination Trailers**

Because of the limited nature of the Work, an office trailer will not be established on site. All office activities will be carried through the offices of FRETCO, INC. at 1107 Edgemoor, Kalamazoo, Michigan. As noted above, because of the nature of this project, no decontamination trailers are required.

### **2.5 Site Preparation**

Because of the limited nature of the Work, site preparation will be limited to the staking out of the appropriate boundary lines for the installation of the fence and the necessary clearing of the property lines for that fence installation. There will be no electrical installations required on site nor will there by any required use of ladders or scaffolding.

## **2.6 Emergency Response Contingency Plan**

The fence is expected to be installed in areas which are uncontaminated. Consequently, no emergencies related to contamination are anticipated. However, if visible contamination is noticed by the contractor during the fence installation, Allied will immediately confer with the on-scene coordinator and prepare a plan and schedule for analysis and mitigative action. Other emergency plans related to worker safety and health are discussed in the site safety plan.

## **2.7 Estimate of Time Required for Site Mobilization**

Allied voluntarily mobilized on the site prior to the negotiation of the Order and filing of this Work Plan. Mobilization includes the presence of necessary equipment for the installation of the fence and the presence on-site of adequate materials in order to allow the fence installation to proceed with proper efficiency.

## **2.8 Estimate the Equipment and Personnel Needed to Complete the Project**

See Exhibit F of this Work Plan which contains a list of the necessary equipment and personnel needed to complete the project.

## **3.0 SAMPLING ACTIVITIES**

Sampling activities will not be a part of the Scope of Work under this Work Plan. Prior analytical data has been used to determine the need for placement of the fence, and no new sampling will be required in conjunction with the execution of the Work.

## **4.0 REMOVAL ACTIVITIES**

Since the entire scope of this Work Plan relates only to the installation of an above-ground fence and posting of signs, there will be no removal activities taking place on the site. No removal of material is contemplated under the Order. (See p. 4, ¶ 5.) If any materials are removed, they will be handled as described in the Order.

### **4.1 Although removal of materials is not contemplated under the Order or this Work Plan, reference is made to 40 CFR Part 761, Subpart G for PCBs.**

### **4.2 Because of the limited nature of the Work, this section is not applicable.**

#### **4.3 Waste Disposal**

The sole activity covered by this Work Plan is the installation of an above-ground fence as shown on Exhibits A and B and posting of signs. The fence is expected to be installed in areas which are uncontaminated and, consequently, no waste disposal activities will occur. The Order does not contemplate that there will be any soil removal.

#### **4.4 Schedule**

The work activity of this Work Plan is the installation of a fence as shown on Exhibit A and the posting of signs. This activity was voluntarily commenced by Allied on July 6, 1990 and except for the residential areas, is approximately 80% complete at the time of filing this Work Plan. The Work (except for the residential area) will be completed within 14 days after approval of this Work Plan. The fence in the residential area will be completed within 10 days after gaining all necessary access to that area.

### **5.0 Site Restoration/Project Closeout**

Since the only activity performed under this Work Plan is the installation of a fence and posting of signs, restoration and closeout activities will be minimal. The activities will include:

- \* Excess fence materials from site will be removed.
- \* The gates will be locked and keys provided to the following persons:

#### **Key Distribution:**

##### **Alcott Street Gate:**

1. HM Holdings, Inc.
2. Performance Papers or its successor
3. U.S. EPA

##### **Cork Street Gate:**

1. HM Holdings, Inc.
2. Performance Papers or its successor
3. U.S. EPA

**East Gate - Sough End Stryker Property**

1. HM Holdings, Inc.
2. Stryker Company
3. U.S. EPA

**Panelyte Gate:**

1. U.S. EPA

\* The fence will be inspected monthly and repaired as necessary to maintain the integrity of the fence and assure site security.

**6.0 Project Management**

The contractor for the fence installation is Fretco, Inc. The Project Coordinator for Allied will be Mr. Thomas Flanagan, the owner of Fretco. Mr. Flanagan will administer the Work Plan in the field, procure materials, and anticipate the need for support personnel and equipment. Mr. Flanagan will communicate with the OSC regarding progress and any problems encountered. Since it is anticipated that the fence will be completed within 14 days of the approval of this Work Plan, monthly cost and progress reports and site entry and exit logs will not be filed. A final report will be prepared at the completion of the project summarizing the execution and cost of the project.

The PRP representative will be Mr. Jon DeWitt of Varnum, Riddering, Schmidt & Howlett. Notices shall be provided to Mr. DeWitt pursuant to the Order, page 6, ¶ 18.

**6.1 Project Schedule**

**Schedule for Fence Installation**

<u>Activity</u>	<u>/ July</u>	<u>/ Aug</u>	<u>/ Sept</u>	<u>/ Oct</u>	<u>/ Nov</u>	<u>/ Dec</u>
Procure Material	xxxxx					
Survey, clear brush and						
install fence <sup>1</sup>			xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
Final Report					xxxxx	

<sup>1</sup> Final installation schedule is described in paragraph 4.4 above.

**WORK PLAN EXHIBITS**

- A. General map showing fence location
- B. Map to show residential fence and specification
- C. General fence specifications
- D. EPA test results
- E. Topographical map
- F. Equipment and personnel requirements

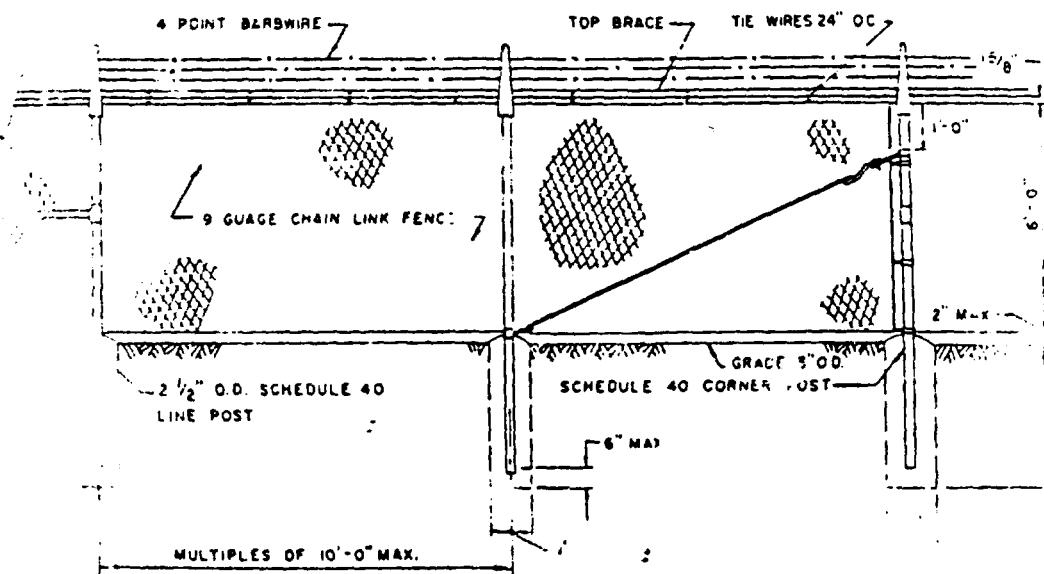
FENCE IN RESIDENTIAL PLAT HOMECREST 1 & 2

x - x - x Standard 6' fence with barb wire

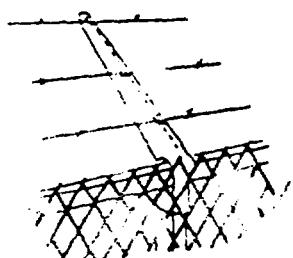
X-X-X 5' fence no barb wire

Exact location of fence behind residences  
was verified in the field by U.S. EPA  
11/15/90.





FENCE DETAIL  
N.T.S.



LINE POST TOP  
N.T.S.

Note: 8" diameter hole for line posts  
approved by Joseph Cisneros 7/24/90.

EXHIBIT C

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

FMS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

RECEIVED.  
JUN 8 1990

LAB SAMPLE ID: C122138  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 06-JUN-90

----- REPORT TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

NOTE . ESTIMATED  
QUALITY (G)  
DATA DUE TO  
EXCEEDED HOLDING  
TIME

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

TAT REG V 5M

----- BILL TO -----

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 12:00:30

PO NUMBER : 16-1149.....

DESCRIPTION : PROJ. # 90WT07

SAMPLE LOCATION : S01; PANALYTE-NE SIDE

EPA TAG # : 5090950

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR

DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.55 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER

DATE : 01-JUN-90 INSTRUMENT : GC/ECD

REP : 0

PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J	1.0
PCB AROCHLOR 1262.....	2.5 MG/KG J	1.0
PCB AROCHLOR 1268.....	3.2 MG/KG J	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

PAGE 1

EXHIBIT D

(to Work Plan)

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS HERITAGE LABORATORIES, INC.  
205 S. CASS AVE. SUITE 106  
MARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122139  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 06-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 12:15:00 PO NUMBER : 16-1149.....  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : SO2; PANALYTE-SE SIDE OF BUILDING  
EPA TAG # : 5090949

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.24 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 01-JUN-90 INSTRUMENT : GC/ECD REP : 0  
PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	3.7 MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	1.1 MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

36025MSCERT

C E R T I F I C A T E O F A N A L Y S I S

----- CORRESPOND TO -----

FMS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122140  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 06-JUN-90

----- REPORT TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 12:10:00 PO NUMBER : 16-1149.....  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S03; PANALYTE-PILED SOIL EAST OF BUILDING  
EPA TAG # : 5090926

----- ANALYSIS -----

PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.20 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 01-JUN-90 INSTRUMENT : GC/ECD  
PREP : PCB SONICATION EXTRACTION SW846-3550

REP : 0

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

FMS HERITAGE LABORATORIES, INC.  
205 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122141  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

REPORT TO

BILL TO

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## DESCRIPTION

DATE SAMPLED : 23-MAY-90 TIME : 12:20:00 PO NUMBER : 16-1149.....  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S04; PANALYTE-S 1/2 PRESS PIT  
EPA TAG # : 5090927

## ANALYSIS

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.16 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 02-JUN-90 INSTRUMENT : GC/ECD REP : 0  
PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	1.5 MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	1.5 MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J = ESTIMATED VALUE

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS HERITAGE LABORATORIES, INC.  
 205 S. CASS AVE. SUITE 106  
 ARIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122142  
 DATE PRINTED : 07-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 12:20:00 PO NUMBER : 16-1149.....  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S05; PANALYTE-N 1/2 PRESS PIT  
 EPA TAG # : 5090928

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENDAR DATE : 01-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.02 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 02-JUN-90 INSTRUMENT : GC/ECD REP : 0  
 PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	2.5 MG/KG J.....	1.0
PCB AROCHLOR 1268.....	7.7 MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

## CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
RIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122143  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

REPORT TO

BILL TO

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## DESCRIPTION

DATE SAMPLED : 23-MAY-90 TIME : 12:25:00 PO NUMBER : 16-1149.....  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S06; PANALYTE-SW SIDE OF BUILDING  
EPA TAG # : 5090929

## ANALYSIS

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.27 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 02-JUN-90 INSTRUMENT : GC/ECD  
PREP : PCB SONICATION EXTRACTION SW846-3550

REP : 0

AMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

2602EMSCERT

## CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

FMS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122144  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

REPORT TO

BILL TO

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## DESCRIPTION

DATE SAMPLED : 23-MAY-90 TIME : 12:25:00 PO NUMBER : 16-1149.....  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S07; PANALYTE-WEST CENTRAL SIDE  
EPA TAG # : 5090930

## ANALYSIS

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.40 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 02-JUN-90 INSTRUMENT : GC/ECD REP : 0  
PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS HERITAGE LABORATORIES, INC.  
 205 S. CASS AVE. SUITE 106  
 DARIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122145  
 DATE PRINTED : 07-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

REPORT TO

BILL TO

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

## DESCRIPTION

DATE SAMPLED : 23-MAY-90 TIME : 12:30:00 PO NUMBER : 16-1149 .....  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S08; PANALYTE-NW SIDE OF BUILDING  
 EPA TAG # : 5090931

## ANALYSIS

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : J. PFEIFER DATE : 01-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.03 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 02-JUN-90 INSTRUMENT : GC/ECD REP : 0  
 PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS HERITAGE LABORATORIES, INC.  
205 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122146  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 12:45:00  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S09; PANALYTE-STACKHOUSE  
EPA TAG # : 5090932

PO NUMBER : 16-1149.....

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR

DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.16 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER

DATE : 03-JUN-90 INSTRUMENT : GC/ECD

REP : 0

PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

PAGE 1

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

S HERITAGE LABORATORIES, INC.  
 105 S. CASS AVE. SUITE 106  
 DARIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122147  
 DATE PRINTED : 07-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 12:45:00 PO NUMBER : 16-1149.....  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S10; PANALYTE-STACKHOUSE  
 EPA TAG # : 5090934

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENDAR DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.01 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 03-JUN-90 INSTRUMENT : GC/ECD

REP : 0

REP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

PAGE 1

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS HERITAGE LABORATORIES, INC.  
 205 S. CASS AVE. SUITE 106  
 ARIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122148  
 DATE PRINTED : 07-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 12:50:00 PO NUMBER : 16-1149.....  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S11; PANALYTE-BY STAIRS/RAMP  
 EPA TAG # : 5090933

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.32 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 03-JUN-90 INSTRUMENT : GC/ECD REP : 0  
 PREP : PCB SONICATION EXTRACTION SW846-3550

RAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG <u>J</u> .....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1260.....	5.1 MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG <u>J</u> .....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

FMS HERITAGE LABORATORIES, INC.  
 105 S. CASS AVE. SUITE 106  
 BARIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122149  
 DATE PRINTED : 07-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 11:00:00  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S12; ALLIED-OLD PAPER PIT  
 EPA TAG # : 5090935

PO NUMBER : 16-1149.....

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.18 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 03-JUN-90 INSTRUMENT : GC/ECD  
PREP : PCB SONICATION EXTRACTION SW846-3550

REP : 0

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J = ESTIMATED VALUE

PAGE 1

3602EMS CERT

## CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

FMS HERITAGE LABORATORIES, INC.  
 205 S. CASS AVE. SUITE 106  
 VARIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122150  
 DATE PRINTED : 07-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

REPORT TO

BILL TO

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

## DESCRIPTION

DATE SAMPLED : 23-MAY-90 TIME : 11:00:00 PO NUMBER : 16-1149.....  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S13; ALLIED-OLD PAPER PULP  
 EPA TAG # : 5090936

## ANALYSIS

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.02 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 03-JUN-90 INSTRUMENT : GC/ECD REP : 0  
 PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J=ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

MS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122151  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

REPORT TO

BILL TO

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## DESCRIPTION

DATE SAMPLED : 23-MAY-90 TIME : 11:15:00  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S14; ALLIED-BY WELL #22  
EPA TAG # : 5090937

PO NUMBER : 16-1149.....

## ANALYSIS

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.16 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 03-JUN-90 INSTRUMENT : GC/ECD

REP : 0

REP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J = ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS HERITAGE LABORATORIES, INC.  
 205 S. CASS AVE. SUITE 106  
 DARIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122152  
 DATE PRINTED : 07-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 11:20:00  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S15; ALLIED-BY WELL #22  
 EPA TAG # : 5090938

PO NUMBER : 16-1149.....

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : T. JANOTA DATE : 01-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.02 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 03-JUN-90 INSTRUMENT : GC/ECD REP : 0  
 PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG <u>J</u> .....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG <u>J</u> .....	1.0

BDL BELOW DETECTABLE LIMITS

J=ESTIMATED VALUE

360ZEMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

IS HERITAGE LABORATORIES, INC.  
1205 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

----- SAMPLE -----

LAB SAMPLE ID: C122153  
DATE PRINTED : 08-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 11:20:00 PO NUMBER : 16-1149.....  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S16; ALLIED-SEEP #1  
EPA TAG # : 5090939

----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : T. JANOTA

DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.00 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER

DATE : 03-JUN-90 INSTRUMENT : GC/ECD

REP : 0

REP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG <u>J</u> .....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1242.....	29 MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1254.....	1.0 MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG <u>J</u> .....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG <u>J</u> .....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

PAGE 1

3602EMSCERT

C E R T I F I C A T E O F A N A L Y S I S

----- CORRESPOND TO -----

MS HERITAGE LABORATORIES, INC.  
205 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122154  
DATE PRINTED : 08-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 11:30:00  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S17; ALLIED-BY WELL #22  
EPA TAG # : 5090940

PO NUMBER : 16-1149.....

----- ANALYSIS -----

PCB SONICATION EXTRACTION SW846-3550

ANALYST : T. JANOTA DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.13 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 04-JUN-90 INSTRUMENT : GC/ECD

REP : 0

REP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1221.....	BDL MG/KG <u>J</u>	25
PCB AROCHLOR 1232.....	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1242.....	66 MG/KG <u>J</u>	5.0
PCB AROCHLOR 1248.....	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1254.....	2.1 MG/KG <u>J</u>	5.0
PCB AROCHLOR 1260.....	4.5 MG/KG <u>J</u>	5.0
PCB AROCHLOR 1268.....	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1262.....	BDL MG/KG <u>J</u>	5.0

BDL BELOW DETECTABLE LIMITS

J = ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

FMS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122155  
DATE PRINTED : 08-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 11:35:00

PO NUMBER : 16-1149.....

DESCRIPTION : PROJ. # 90WT07

SAMPLE LOCATION : S18; ALLIED-BY WELL #22

EPA TAG # : 5090941

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR

DATE : 01-JUN-90 INSTRUMENT : MANUAL

REP : 0

## PARAMETER

INITIAL WEIGHT OR VOLUME.....	RESULT	DET LIM
	5.22 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER

DATE : 04-JUN-90 INSTRUMENT : GC/ECD

REP : 0

PREP : PCB SONICATION EXTRACTION SW846-3550

## PARAMETER

PCB AROCHLOR 1016.....	RESULT	DET LIM
	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1221.....	BDL MG/KG <u>J</u>	25
PCB AROCHLOR 1232.....	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1242.....	47 MG/KG <u>J</u>	5.0
PCB AROCHLOR 1248.....	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1254.....	2.0 MG/KG <u>J</u>	5.0
PCB AROCHLOR 1260.....	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1268.....	BDL MG/KG <u>J</u>	5.0
PCB AROCHLOR 1262.....	BDL MG/KG <u>J</u>	5.0

BDL BELOW DETECTABLE LIMITS

J = ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS HERITAGE LABORATORIES, INC.  
2205 S. CASS AVE. SUITE 106  
ARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122156  
DATE PRINTED : 08-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 11:45:00

PO NUMBER : 16-1149.....

DESCRIPTION : PROJ. # 90WT07

SAMPLE LOCATION : S19; ALLIED-BY WELL #5

EPA TAG # : 5090942

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR

DATE : 02-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.01 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER

DATE : 02-JUN-90 INSTRUMENT : GC/ECD

REP : 0

PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG <i>J</i> .....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG <i>J</i> .....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG <i>J</i> .....	1.0
PCB AROCHLOR 1242.....	23 MG/KG <i>J</i> .....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG <i>J</i> .....	1.0
PCB AROCHLOR 1254.....	1.2 MG/KG <i>J</i> .....	1.0
PCB AROCHLOR 1260.....	1.4 MG/KG <i>J</i> .....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG <i>J</i> .....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG <i>J</i> .....	1.0

BDL BELOW DETECTABLE LIMITS

*J= ESTIMATED VALUE*

360ZEMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS HERITAGE LABORATORIES, INC.  
705 S. CASS AVE. SUITE 106  
JARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122157  
DATE PRINTED : 08-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 11:50:00  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S20; ALLIED-BY WELL #5  
EPA TAG # : 5090943

PO NUMBER : 16-1149.....

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 02-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.06 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 05-JUN-90 INSTRUMENT : GC/ECD REP : 0  
PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	10
PCB AROCHLOR 1232.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1242.....	100 MG/KG J.....	2.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1254.....	3.8 MG/KG J.....	2.0
PCB AROCHLOR 1260.....	4.6 MG/KG J.....	2.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	2.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

FMS HERITAGE LABORATORIES, INC.  
 05 S. CASS AVE. SUITE 106  
 BRIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122158  
 DATE PRINTED : 08-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 11:40:00  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S21; ALLIED-SEEP #1  
 EPA TAG # : 5090944

PO NUMBER : 16-1149.....

----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 02-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.00 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 05-JUN-90 INSTRUMENT : GC/ECD REP : 0  
PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	51 MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	1.2 MG/KG J.....	1.0
PCB AROCHLOR 1260.....	1.2 MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J= ESTIMATED VALUE

3602EMSCERT

## CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

FMS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122159  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

REPORT TO

BILL TO

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## DESCRIPTION

DATE SAMPLED : 23-MAY-90 TIME : 11:55:00  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S22; ALLIED-BY WELL #8  
EPA TAG # : 5090945

PO NUMBER : 16-1149.....

## ANALYSIS

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 02-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.05 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 02-JUN-90 INSTRUMENT : GC/ECD  
PREP : PCB SONICATION EXTRACTION SW846-3550

REP : 0

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	7.1 MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J=ESTIMATED VALUE

PAGE 1

3602EMSCERT

C E R T I F I C A T E O F A N A L Y S I S

----- CORRESPOND TO -----

SAMPLE

HERITAGE LABORATORIES, INC.  
8205 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122160  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

BILL TO

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 13:00:00 PO NUMBER : 16-1149.....  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S23; ALLIED-#13 LOWER M.P.  
EPA TAG # : 5090946

----- ANALYSIS -----

PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 02-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER

INITIAL WEIGHT OR VOLUME..... RESULT ..... DET LIM  
FINAL VOLUME..... 5.04 GRAMS .....

100 ML .....

POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 05-JUN-90 INSTRUMENT : GC/ECD  
REP : PCB SONICATION EXTRACTION SW846-3550

REP : 0

PARAMETER

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.	5.0
PCB AROCHLOR 1221.....	BDL MG/KG J.	25
PCB AROCHLOR 1232.....	BDL MG/KG J.	5.0
PCB AROCHLOR 1242.....	210 MG/KG J.	5.0
PCB AROCHLOR 1248.....	BDL MG/KG J.	5.0
PCB AROCHLOR 1254.....	BDL MG/KG J.	5.0
PCB AROCHLOR 1260.....	BDL MG/KG J.	5.0
PCB AROCHLOR 1262.....	BDL MG/KG J.	5.0
PCB AROCHLOR 1268.....	BDL MG/KG J.	5.0

BDL BELOW DETECTABLE LIMITS

J=ESTIMATED VALUE

PAGE 1

3602EMSCERT

## CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

FMS HERITAGE LABORATORIES, INC.  
 205 S. CASS AVE. SUITE 106  
 DARIEN, IL 60559  
 (708)969-9030

LAB SAMPLE ID: C122161  
 DATE PRINTED : 08-JUN-90  
 DATE RECEIVED: 25-MAY-90  
 DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

----- BILL TO -----

ATTN: MELODY SULLIVAN  
 WESTON  
 111 NORTH CANAL  
 SUITE 855  
 CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
 ROY F. WESTON, INC.  
 TECH. ASST. PROGRAM  
 111 N CANAL STE 855  
 CHICAGO, IL 60606

## ----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 13:00:00 PO NUMBER : 16-1149.....  
 DESCRIPTION : PROJ. # 90WT07  
 SAMPLE LOCATION : S24; ALLIED-#12 LOWER M.P.  
 EPA TAG # : 5090918

## ----- ANALYSIS -----

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 02-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.05 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 05-JUN-90 INSTRUMENT : GC/ECD REP : 0  
 PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	75 MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	2.4 MG/KG J.....	1.0
PCB AROCHLOR 1260.....	1.9 MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

-----  
BDL BELOW DETECTABLE LIMITS

J=ESTIMATED VALUE

3602EMSCERT

C E R T I F I C A T E O F A N A L Y S I S

----- CORRESPOND TO -----

SAMPLE -----

FMS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
DARIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122162  
DATE PRINTED : 08-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

----- REPORT TO -----

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 23-MAY-90 TIME : 13:00:00 PO NUMBER : 16-1149.....  
DESCRIPTION : PROJ. # 90WT07  
SAMPLE LOCATION : S25; ALLIED-#14 LOWER M.P.  
EPA TAG # : 5090947

----- ANALYSIS -----

PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 02-JUN-90 INSTRUMENT : MANUAL REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.04 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 05-JUN-90 INSTRUMENT : GC/ECD REP : 0  
PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	10
PCB AROCHLOR 1232.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	2.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	2.0

detection limit raised due to matrix interference and degradation

-----  
BDL BELOW DETECTABLE LIMITS  
-----

J= ESTIMATED VALUE

PAGE 1

3602EMSCERT

## CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS HERITAGE LABORATORIES, INC.  
105 S. CASS AVE. SUITE 106  
RIEN, IL 60559  
(708)969-9030

LAB SAMPLE ID: C122163  
DATE PRINTED : 07-JUN-90  
DATE RECEIVED: 25-MAY-90  
DATE COMPLETE: 07-JUN-90

REPORT TO

BILL TO

ATTN: MELODY SULLIVAN  
WESTON  
111 NORTH CANAL  
SUITE 855  
CHICAGO, IL 60606

ATTN: ACCOUNTS RECEIVABLE  
ROY F. WESTON, INC.  
TECH. ASST. PROGRAM  
111 N CANAL STE 855  
CHICAGO, IL 60606

## DESCRIPTION

DATE SAMPLED : 23-MAY-90 TIME : 13:00:00

PO NUMBER : 16-1149.....

DESCRIPTION : PROJ. # 90WT07

SAMPLE LOCATION : S26; ALLIED-ROCK W.

EPA TAG # : 5090913

## ANALYSIS

## PCB SONICATION EXTRACTION SW846-3550

ANALYST : C. SKLENAR DATE : 02-JUN-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	5.01 GRAMS .....	
FINAL VOLUME.....	100 ML .....	

## POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080

ANALYST : J. PFEIFER DATE : 03-JUN-90 INSTRUMENT : GC/ECD

REP : 0

PREP : PCB SONICATION EXTRACTION SW846-3550

PARAMETER	RESULT	DET LIM
PCB AROCHLOR 1016.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1221.....	BDL MG/KG J.....	5.0
PCB AROCHLOR 1232.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1242.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1248.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1254.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1260.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1262.....	BDL MG/KG J.....	1.0
PCB AROCHLOR 1268.....	BDL MG/KG J.....	1.0

BDL BELOW DETECTABLE LIMITS

J=ESTIMATED X VALUE

PAGE 1

Oversize Map Available At U.S. EPA  
Region V, Records Center

EQUIPMENT AND PERSONNEL

(Sec. 1.8 of Work Plan)

Equipment:

1 Bulldozer  
1 Power auger  
2 Pickup trucks  
1 Chain saw  
1 Backhoe

Personnel

Project Coordinator  
1 Foreman  
4 Laborers

Miscellaneous shovels and hand tools

EXHIBIT F